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OFFICINE GALILEO

STEREO MICRO-SCOPE NSC /1

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STEREOMICROSCOPE NSC/1

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Reflection observations (fig. 1)

Transparency observations (fig. 2)

Special specimen observations (fig. 3)

Modern technologies require in the precision mechanics field as well as in the electrotechnics and electronics ones continuously the use of microscopes; both in the time of mounting and final test.

Often the objects to be examined do not show a perfectly plane surface and the classic single-objective microscope cannot satisfy researcher and technical requirements: it is therefore necessary a stereoscopic microscope, which gives a perfect sensation of the reliefs of the examined surface. Further, while in the classic microscopes the object's image appears reversed, in the stereomicroscope the image is straight and all displacements of the object appear therefore perfectly natural.

To meet such requirements in this field, the **Officine Galileo** have realized the **Stereoscopic Microscope NSC/1** the main features of which are as follows:

Focussing, by means of a quick movement with pinion and rack, controlled by large side knobs.

Magnification change, by simply turning objective-holder drums: proper objective magnifications are respectively: 0.6X, 1X. 1.6X, 2.5X, and 4X. No further focussing adjustment is required owing to the parafocality of same objectives.

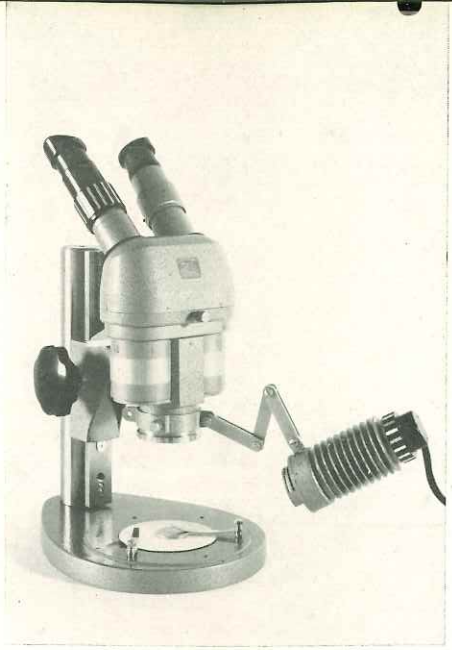
Eyepiece head can be easily turned by 180° to allow an inverted use of the stand (fig. 2).

Interpupillar distance, adjustable between 55 and 75, by displacing eyepiece holders, one of which is equipped with helical movement for the correction of operator anisometropies.

The **Stereomicroscope** can be applied to the standard stand arranged for reflex or transmitted light, to the column stand or directly to the machine set.

Working distance, of 80 mm, allows easy handlings during thc observation.

Magnifications which can be obtained with the standard set, range from 6X to 100X (by using supplementary eyepieces 4X, magnifications can diminish to 2,4X), an additional lens allows to increase magnifications up to 200X: working distance, in the latter case is reduced to 30 mm.



Stereomicroscope NSC/1 with simple table for reflection observations.

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Fig. 1

Stereomicroscope NSC/1 with supplementary table and plano-concave mirror for transparency examinations.

Figure shows eyepiece head turned by 180° in respect to fig. 1 and the stand in inverted position.

Fig. 2

Table of the total magnifications attainable with various objectives and eyepieces, and of the relative diameters in useful work fields.

Proper objective magnification - working distance 80 mm

Eyepiece magnification	0,6 X	1 X	1,6 X	2,5 X	4 X
4 X	2.4 X ∅ field 46 mm	4X ∅ field 30 mm	6,4 X ∅ field 19 mm	10 X ∅ field 11,5 mm	16 X ∅ field 7 mm
10 X	6 X ∅ field 31 mm	10 X ∅ field 19,5 mm	16 X ∅ field 12 mm	25 X ∅ field 7,5 mm	40 X ∅ field 4,8 mm
25 X	15 X ∅ field 16 mm	25 X ∅ field 10 mm	40 X ∅ field 6 mm	63 X ∅ field 3,7 mm	100 X ∅ field 2,5 mm

Above data refer to **Stereomicroscope NSC/1** used without additional lens: with 2 X lens, magnifications will be doubled, the field diameters reduced to one half and working distance reduced to 30 mm.

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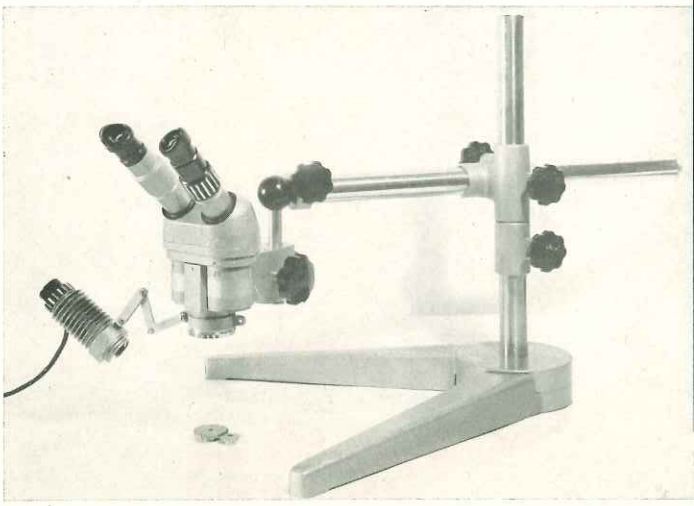

Fig. 3

Stereomicroscope NSC 1 mounted on column stand.

MICROPHOTOGRAPHY

Attachment for microphotographic exposures	**N. 6004** *Racco*
Microphotographic camera 24 x 36	**N. 3528** *Fotocam*
Eyepiece HC 10X with cross micrometer for same	**N. 3529** *Fotodix*
Microphotographic camera 6,5 x 9 cm.	**N. 343** *Camerella*
Exposuremeter "Microfot„ with cadmium sulfite photoelectric cell for microscopy.	**N. 5900** *Microfot*

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ILLUMINATION

A rotating collar outside the main objective, allows the connection of one or two lamps for illumination of the specimen. The lamps are equipped with an articulated joint for the correct illumination in reflected or transmitted light.

Lamp. mod. STR - with 6 V - 15 W bulb and articulated joint for connection to the collar of the stereomicroscope Galileo and universal transformer with input 125-160-220 V and output adjustable from 2 to 8 V.

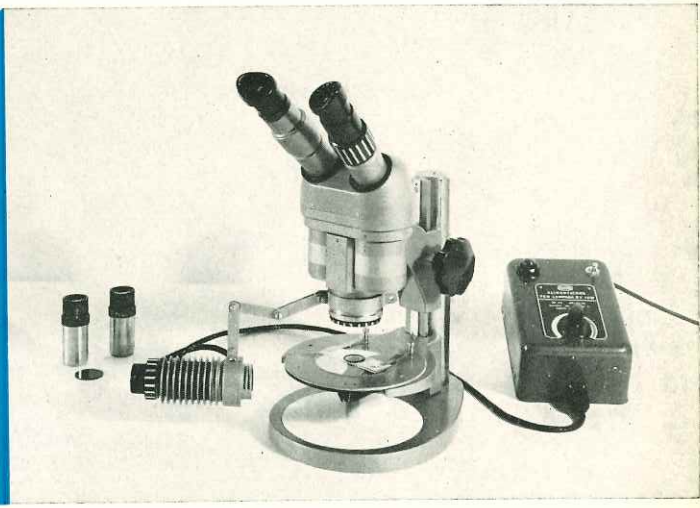

Fig. 4

Stereomicroscope NSC/1 and accessories.

Lamp. mod. TF 604 with fluorescent tubes of 4 W, input 220 V, articulated joint for connection to the collar of the stereomicroscope Galileo.

Lamp. mod. TW 604 black light, with 2 tubes Wood of 4 W input 220 V, articulated joint for connection to the collar of the stereomicroscope Galileo.

COMBINATIONS OF NSC/1 STEREOMICROSCOPE

NSC 1 Stereoscopic Microscope with objective holding drums, 0.6X, 1X, 1.6X, 2.5X, 4X, adjustable eyepiece holding head, stand with focussing movement by means of pinion and rack, eyepieces excluded.
Circular base with central bicolored metal disk (white and black) and specimen holding clamps.
Wooden case with handle, lock and key.

N. 4070 *Sterix*

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Eyepiece 4X . . . . . **N. 4054** *Sterqua*

Eyepiece 10X . . . . . **N. 4055** *Sterdix*

Eyepiece 25X . . . . . **N. 4056** *Stervent*

Accessories for NSC/1 Stereomicroscope

Supplementary table for transparency examinations, with central glass disk, specimen holding clamps, plate with plano-concave mirror. **N. 4051** *Taster*

Additional 2X lens to be screwed on main objective **N. 4052** *Lenster*

Column stand with fitting, equipped with pinion and rack **N. 4053** *Stereocol*

STR Lamp with articulated joint for connection to the bush of NSC Stereomicroscope **N. 4057** *Stereolamp*

Lamp mod. S 604 with articulated joint and base **N. 4900** *Eslamp*

Universal transformer input 125-160-220 V and output from 2 to 8 V **N. 3558** *Regolar*

Spare lamp for STR lighter 6 V, 15 W **N. 3559** *Cambiar*

Fluorescent light lamp mod. TF 604 with articulated joint for connection to the collar of the stereomicroscopes NSC **N. 5100** *Teflamp*

Fluorescent spare tube for same **N. 5102** *Tubfluo*

Black light lamp Wood mod. TW with articulated joint for connection to the collar of the stereomicroscopes NSC **N. 6003** *Bleclamp*

Spare light tube Wood for same **N. 5801** *Tubwood*

mod. 210/GS - 1000 - 3.66 - RG